LITEMAX
Sunlight Readable LCD!

ENRICH YOUR VISUAL WORLD...

LITEMAX SLD1544

VHB Specifications

(1st Edition 8/24/2007)

All information is subject to change without notice.

Approved by	Checked by	Prepared by
David	Sharline	Jack

LITEMAX Electronics Inc.
8F-2, No.133, Lane 235, Bau-chiau Rd.,
Shin-dian City, Taipei County, Taiwan R.O.C.
Tel : 886-2-8919-1858
Fax: 886-2-8919-1300
Homepage: http://www.litemax.com.tw

Content

Content	2
Introduction	3
Hardware Installation	3
Specification	4
The Display Timing	6
The Display Controls	8
The Screen Adjustment	9

Introduction

Welcome to enjoy the fantastic sightseeing world. This new technology will bring you the whole new feeling about the “monitor”. We show here some of the major advantages of the VHB monitor. You will really find some other advantages when you use it.

Hardware Installation

This chapter will guide you the correct installation procedures of your LCD monitor.

Unpacking

After you unpack your LCD Monitor, please make sure that the following items are included in the carton and in good condition. If you find that any of these items are damaged or missing, please contact your dealer immediately.

- One LCD Monitor
- 15-pin D-sub Video cable (Option)
- AC/DC adapter with 12V DC output (Option)
- AC power cord (Option)
- Quick installation Guide
- User’s manual

Installation

This analog LCD display **does not** require any special drivers. Necessary drivers are supplied by the video card manufacturer and may be found on the diskettes supplied with the video card that came with your computer. Windows 98/2000/XP drivers for both the display and the video card are supplied on the Windows 98/2000/XP CD or diskettes. Unfortunately, Microsoft did not provide a complete listing of the displays on the initial retail release. You may use the standard XGA (1024x768) as the display type. The video card must also be set up correctly in Windows 98/2000/XP and make sure the video output of the VGA card is on list in Section 6.1 or check your Video Card manual or Windows 98/2000/XP Read me file for further information on Video Card. After the question listed above is solved, we continue the setup procedure as below.

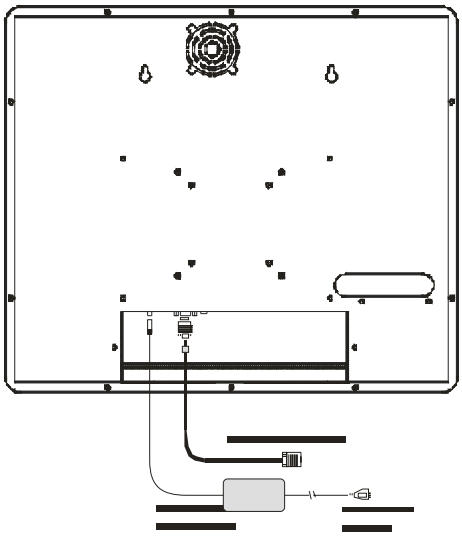
1. Turn power off both Computer and Display before making any connection.
2. Install Display on the solid horizontal surface such as a table or desk.
3. Connect the power cable and the AC/DC adapter, then connect adapter toe the back of the LCD monitor.
4. The LCD monitor comes with a 15-pin video cable; you may use this cable for both IBM PC’s & compatibles and Macintosh.
5. Tighten the screws of the Display cable until the connectors are fastened securely.
6. Switch on power to the Computer system, then to the monitor.

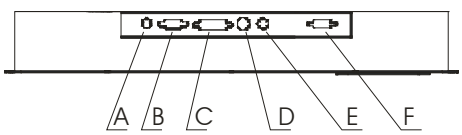
Specification

Model No.	LD1544
Display Area	304.128 x 228.096mm
LCD Display	15" TFT active matrix Panel
Display Colors	16.2M colors (6 bit for R,G,B)
Luminance	800 cd/m^2
Contrast Ratio	500 :1 (typ.)
Resolution	1024 x 768 (XGA)
Pixel Arrangement	RGB (Red, Green, Blue) vertical stripe
Pixel Pitch	0.297(H) x 0.297(V)
Viewing Angle	+70°~-70°(H), +65°~-55°(V)
Color Gamut	At LCD panel center 60% (typ.) [against NTSC color space]Ton (black 10%→white 90%)
Response Time	12 ms (typ.)
Sync	LVDS
Signal Connector	15 Pin D-sub, 29 Pin DVI-D
F/R Control Button	Power Switch, Menu, Select (+,-), Auto
OSD Menu	Brightness, Contrast, H/V Position, Color, Phase, Clock, Language, Management
Power Consumption	56.5W (typ.)
Module Size	389 (H) x325(V) x60.5 (D) mm
Weight (Net)	3.92kg (typ.)
Option	Touch (Resistive/ Capacitive),Light Sensor, VR Control
Certification	CE, FCC

※Specifications subject to change without notice.

The following picture provides the connection outline

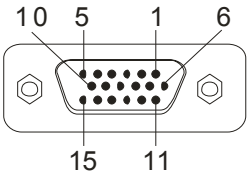




A: POWER
B:VGA INPUT
C: DVI INPUT
D: S-VIDEO INF
E: AV INPUT
F: TOUCH INPUT

Video Input Pin Assignment

This section describes the pin assignment of the LCD's video connector. It is called 15pin Mini D-sub connector.



Pin No.	Signal Connector
1	Red Video Signal
2	Green Video Signal
3	Blue Video Signal
4	N.C.
5	Ground
6	Ground for red video signal
7	Ground for green video signal
8	Ground for blue video signal
9	N.C.
10	Ground
11	N.C.
12	DDC data
13	Horizontal sync signal
14	Vertical sync signal
15	DDC clock

The Display Timing

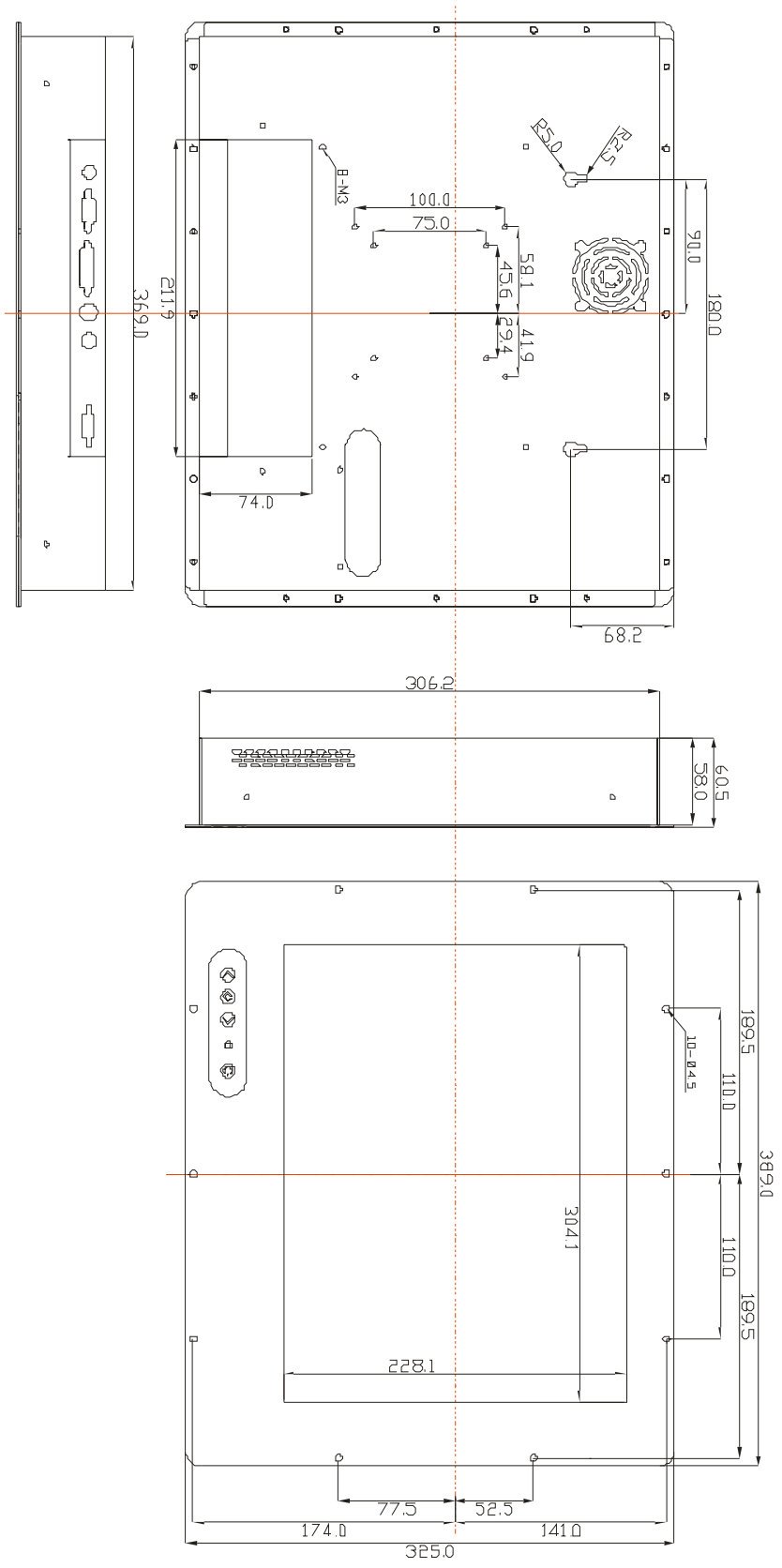
Applicable video timing

The following table lists the better display quality modes that the LCD monitor provides. If the other video modes are input, the monitor will stop working or display unsatisfactory picture quality.

VESA Modes					
Mode	Resolution	Total	Nominal Frequency ±0.5KHz	Nominal Frequency ±0.5KHz	Nominal Pixel Clock (MHz)
DOS	720x400@70Hz	900x449	31.469	70.087	28.322
VGA	640x480@60Hz	800x525	31.469	59.940	25.175
	640x480@72Hz	832x520	37.861	72.809	31.500
	640x480@75Hz	840x500	37.500	75.000	31.500
SVGA	800x600@56Hz	1024x625	35.156	56.250	36.000
	800x600@60Hz	1056x628	37.879	60.017	40.000
	800x600@72Hz	1040x666	48.077	72.188	50.000
	800x600@75Hz	1056x625	46.875	75.000	49.500
XGA	1024x768@60Hz	1344x804	48.363	60.004	65.000
	1024x768@70Hz	1328x806	56.476	70.069	75.000
	1024x768@75Hz	1312x800	60.023	75.029	78.750
IBM Modes					
EGA	640x350@70Hz	800x449	31.469	70.086	25.175
DOS	720x400@70Hz	900x449	31.469	70.087	28.322
VGA	640x480@60Hz	800x525	31.469	75.000	31.500
XGA	1024x768@72Hz	1304x798	57.515	72.100	75.000
MAC Modes					
VGA	640x480@60Hz	800x525	31.469	59.940	25.175
SVGA	832x624@75Hz	1152x667	49.725	74.551	57.2832
XGA	1024x768@75Hz	1328x804	60.927	74.927	80.000

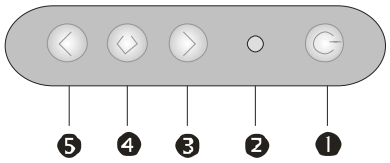
The Display Outline Dimensions

Unit: mm



The Display Controls

Membrane Control Button



❶**POWER SWITCH:** Pushing the power switch will turn the monitor on. Pushing it again to turn the monitor off.

❷**Power LED:** Power ON-Green / Power off-No.

❸**Up Key >:** Increase item number or value of the selected item.

❹**Menu Key:** Enter to the OSD adjustment menu. It also used for go back to previous menu for sub-menu, and the change data don't save to memory.

❺**Down Key <:** Decrease item number or item value when OSD is on.
When OSD is off, it is hot key for input switch between VGA, AV, and S-video.

Screen Adjustment Operation Procedure

1. **Entering the screen adjustment**
   The setting switches are normally at stand-by. Push the **Menu Key** once to display the main menu of the screen adjustment. The adjustable items will be displayed in the main menu.
2. **Entering the settings**
   Use the **Down Key <** and **Up Key >** buttons to select the desired setting icon and push the SELECT button to enter sub-menu.
3. **Change the settings**
   After the sub-menu appears, use the **Down Key <** and **Up Key >** buttons to change the setting values.
4. **Save**
   After finishing the adjustment, push the SELECT button to memorize the setting.
5. **Return & Exit the main menu**
   Exit the screen adjustment; push the "MENU" button. When no operation is done around 30 sec (default OSD timeout), it goes back to the stand-by mode and no more switching is accepted except MENU to restart the setting.

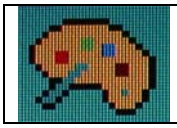
The Screen Adjustment

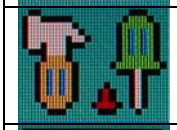
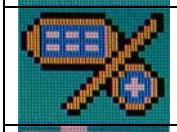
Main Menu

You can adjust the brightness, contrast, display colors, the horizontal and vertical position of the display and OSD menu, etc. through the main menu display.

The **Down Key <** and **Up Key >**are used to scroll through items within the menu. The selected item is highlighted as the scrolling move along. The SELECT key is used to activate the highlighted item. During this state, MENU key is used to close the OSD menu from the screen.

Menu key function:

	**Color**	Setup the contrast, brightness and color of the panel. / The Contrast menu item is used to adjust image contrast.

	Picture	Setup the image position within the panel.
	**Function**	Select auto adjust & auto color function can make the monitor have the best efficiency.
	OSD	There many languages can be selected and setup OSD position
	**Miscellaneous**	You can set signal source, mode select, and volume and restart the setting.
	Exit	Exit setting.